

Customer No.: 31561  
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Clean Version

### ABSTRACT OF THE DISCLOSURE

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A slew rate enhancement circuit of an operational amplifier including a main output stage, a monitoring stage and an assistant output stage is provided. An input voltage of the operational amplifier is detected by the main output stage to decide whether to output a main current to the load or not. The main output stage also generates a first push signal and a first pull signal according to the input voltage, and thereafter the second push signal and second pull signal are level shifted by the monitoring stage. A second push signal and second pull signal will turn on or turn off the assistant output stage to decided whether to output an assistant current to the load or not. Specially, the improved compact circuit does not increase static operating current for the original operational amplifier and occupy a small chip area.